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Section 10 - Power

Early editions of the SEL included multiple references to power-related items such as batteries and generators throughout the various sections. This section was created to eliminate that redundancy, and remind readers that power is a significant consideration in planning across all areas.

The Power section includes only three sub-sections: Batteries and Power Cells, Generators, and Other Power-Related Equipment. Its inclusion as a separate section should increase awareness of power requirements as the number and type of electronic equipment items continues to increase in virtually every section of the SEL. Readers are encouraged to look across the applicable items in other SEL sections and consider the requirements for batteries (number, type, service life, shelf life, etc.), generators, power filtering equipment, and other power-related items without which critical equipment will cease to function.

In the aftermath of Hurricane Katrina, one of the salient lessons learned was the difficulty of recharging batteries in an environment characterized by widespread power outages. As a result, many response organizations are mandating that some critical equipment be capable of using commercially available disposable batteries either as a primary or alternate power source (e.g., an alkaline battery pack that can be used in place of a rechargeable NiCad battery). Where applicable, comments regarding the need for special power requirement such as custom batteries will be noted in the Operating Considerations field of equipment in other SEL sections. Readers are also encouraged to emphasize generator safety and recognize the dangers of carbon monoxide poisoning to the general public during disasters that cause power outages.

No online selection factors have been provided for this section. The applicability of the power requirement will be determined by the type and location of the equipment items being powered.

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Item Number/Title	Description	Features/Operating Considerations	Standards ¹
BC - Batteries and Power Cells 00			
10BC-00-BATT Batteries, All Types, Sizes	Batteries for all recommended equipment. Types including, but not limited to Alkaline, Nickel-Cadmium (NICAD), Nickel Metal Hydride (NiMH), Lithium (Li-Ion). Form factors such as AA, AAA, C and D cells, 9-Volt, Clamshell.	Disposable or rechargeable Intrinsically safe batteries required for explosive environments ----- Shelf life Recharge time if applicable Disposal requirements Life (charge/discharge) cycles	
10BC-00-FCEL Cells, Fuel	Fuel Cells		
10BC-00-SOLR Chargers	Including but not limited to solar, natural gas, shore power, etc.		
GE - Generators 00			
10GE-00-GENR Generators	Generators, varying types and sizes, including gasoline, diesel, propane, natural gas, alternator, gas turbine powered devices, etc.	Portable or fixed ----- Examine load capacity Regular testing Automatic transfer switch Carbon Monoxide Detector Heavy Duty outdoor rated extension cords Approved fuel storage containers →	

¹ Use numbers given to refer to Standards List at the end of this document.

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Item Number/Title	Description	Features/Operating Considerations	Standards ¹
GE - Generators			
00 - <i>Continued</i>			
		Fuel stabilizer Run time (fuel capacity, fuel supply, resupply, etc.) Consider need for extended run time (greater than five days)	
PE - Other Power-Related Equipment			
00			
10PE-00-BCON Conditioners, Battery	Battery Conditioners	Indicators showing current battery status ----- Pulse chargers Number of charging ports Ability to keep track of individual batteries	
10PE-00-INVT Inverters	Equipment for DC to AC conversion.		
10PE-00-PCDS System, Power Conditioning	Systems that provide protection against power spikes, surges, and momentary drops so that serviced equipment receives “clean” power.		
10PE-00-PTSW Switch, Power Transfer	Switch for power output transfer to support generator maintenance and fueling.	Employable with generator autostart for continuous operation and uninterrupted power flow.	122

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Item Number/Title	Description	Features/Operating Considerations	Standards ¹
PE - Other Power-Related Equipment 00 - <i>Continued</i>			
10PE-00-RECT Rectifiers	Equipment for AC to DC conversion.		
10PE-00-REEL Reels, Electric Cord	Electric cord reels.	Twist-lock connectors ----- Twist-lock connectors are advantageous during field operations to prevent accidental disconnection. Length and gauge are relative to expected current load	122
10PE-00-UPS Supply, Uninterruptible Power (UPS)	Systems that compensate for loss of power to serviced equipment for some period of time. May include short-duration battery devices, or standby generator devices for longer duration.	----- Consider load/time relation.	

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